

BEFORE THE FEDERAL COMMUNICATIONS COMMISSION WASHINGTON, D.C. 20554

In the Matter of		
)	
Joint Application by BellSouth)	
Corporation, BellSouth)	CC Docket No. 02-35
Telecommunications, Inc., and BellSouth)	
Long Distance, Inc. for Provision of In-)	
Region, InterLATA Services Georgia)	
And Louisiana)	
)	

SUPPLEMENTAL DECLARATION OF MICHAEL LIEBERMAN ON BEHALF OF AT&T CORP.

I. BACKGROUND AND SUMMARY

- 1. My name is Michael R. Lieberman. I am the same Michael R. Lieberman that submitted testimony on October 19, 2001 in response to BellSouth's first joint Section 271 application for Georgia and Louisiana. The purpose of my supplemental testimony is to update the data in my analysis showing that BellSouth's UNE rates in Georgia and Louisiana are substantially overstated.
- 2. As I demonstrate below, BellSouth's Georgia and Louisiana non-loop rates, by BellSouth's own admission, are far above TELRIC levels. I also show that BellSouth's Georgia daily usage file (or "DUF") charge is far above TELRIC levels. Indeed, the DUF charge on which BellSouth's Georgia Section 271 application is predicated is more than double that recently proposed by BellSouth itself in Georgia (in a separate UNE rate proceeding).
- 3. One reason why the BellSouth Georgia non-loop related rates are inflated is that those rates are based on outdated pre-1997 data. As I demonstrate below, BellSouth's Georgia switch-related costs (which are the primary component non-loop charges) have declined

dramatically since then. Therefore, even if BellSouth's Georgia rates approximate 1997 forward-looking costs (and BellSouth has not established that they do), those rates far exceed 2002 forward-looking costs. As I demonstrate below, a similar phenomenon inflates BellSouth's DUF rates.

- 4. In addition, my analysis of BellSouth's Louisiana rates shows that the conditions necessary to support residential competitive entry in that state do not exist because BellSouth's Louisiana UNE rates are far too high to support mass-market UNE-P retail offerings. This result holds true even when all revenues and benefits that could be incrementally obtained from providing UNE-based local services (*e.g.*, the sale of vertical services) are considered.
- 5. There are no other feasible entry alternatives available to CLECs in Louisiana. Resale is not a feasible alternative because the margins available to resale entrants are not sufficient to support residential entry. Nor is residential UNE-L an economically or practically feasible entry alternative to UNE-P in Louisiana.

II. BELLSOUTH'S GEORGIA NON-LOOP AND DUF RATES ARE VASTLY INFLATED ABOVE TELRIC LEVELS.

6. BellSouth's Georgia Section 271 Application is predicated on non-loop rates that yield total non-loop charges of \$6.83/line/month. *See* Exhibit A-1 (attached). BellSouth, citing changes in costs, *proposed* new non-loop rates in October 2001 and again in February 2002 in an ongoing UNE rate proceeding before the Georgia Public Service Commission ("GPSC"). BellSouth claims that these proposed non-loop rates are TELRIC-compliant. BellSouth's

¹ The total per line non-loop related charge includes the end office line-side ports and usage, as well as end office trunk ports, and transport elements. *See* Exhibit A-2 (attached). The per line charge was computed by applying the Commission's usage profiles for benchmarking purposes as defined in its *Pennsylvania 271 Order*, n.252. *See id*. This charge does not include DUF charges.

February 2002 proposed non-loop rates result in non-loop charges of \$3.78.² Thus, if BellSouth is correct in stating that its February 2002 proposed non-loop rates are TELRIC-compliant, then the non-loop charge on which its Section 271 application is predicated exceeds today's TELRIC levels by 81%. *See id.*

- 7. The DUF rates in BellSouth's Application also are substantially overstated. The DUF rates relied on by BellSouth in its Georgia Application result in recurring DUF charges of \$2.96. BellSouth has effectively conceded that those rates are too high. The DUF rates contained in BellSouth's two recent proposals to the GPSC in the ongoing rate proceeding produce recurring DUF charges of \$1.40. See Exhibit B-1. That DUF charge is more in line with the \$1.37 DUF charge BellSouth implemented in Louisiana last December. See Exhibit B-1.
- 8. One reason why BellSouth's non-loop rates are so overstated is that the switching rates (which are the predominant component of the non-loop charges) in BellSouth's Application are based on 1997 and earlier data. Since then, BellSouth's Georgia switching costs have plummeted, a fact that this Commission has already recognized.³ BellSouth's ARMIS data

This \$3.78 non-loop charge does not reflect BellSouth's feature port additive charge ("FPA") of \$2.27. As I explained in my initial testimony, that charge is inappropriate and has in the past been rejected by both the GPSC and the Louisiana Public Service Commission ("LPSC"). See Lieberman Initial Decl. ¶ 9. In any event, even with the FPA charge, the non-loop charge in BellSouth's Application still exceeds its newly proposed non-loop charge by 13%. See Exhibit A-1 (attached).

³ See, e.g., Order on Remand and Report and Order, Implementation of the Local Competition Provisions in the Telecommunications Act of 1996 and Intercarrier Compensation for ISP-Bound Traffic, CC Dockets No. 96-98 and 99-68, FCC 01-131, at 84, n. 157, 93 (April 27, 2001) (citing Letter from David J. Hostetter, SBC, to Magalie Roman Salas, Secretary, FCC (Feb. 14, 2001), Attachment (citing September 2000 Morgan Stanley Dean Witter report that discusses utilization of lower cost switch technology); Donny Jackson, "One Giant Leap for Telecom Kind?," Telephony, Feb. 12, 2001, at 38 (discussing cost savings associated with replacing circuit switches with packet switches); Letter from Gary L. Phillips, SBC, to Magalie Roman Salas, Secretary, FCC (Feb. 16, 2001) (attaching press release from Focal Communications

illustrates this point. Analysis of BellSouth's Georgia net switch investments and its dial equipment minutes ("DEMs") shows that net switch investments have declined on a per-minute-of-use basis for the past several years and that net switch investment has grown much slower than DEMs. The slow growing net switch investment, combined with the explosive increase in minutes, results in a 40% decline in net switching investment per DEM between 1996 and 2002. See id.⁴ Likewise, BellSouth's outdated and understated demand assumptions underlying its DUF rates severely overstates those rates. If BellSouth had used more current demand assumptions, BellSouth's DUF rates would reflect the fact that its relatively fixed DUF investment could be spread over a higher level of demand.

9. Based on this evidence, the non-loop and DUF rates relied on by BellSouth in its Georgia Application are substantially overstated.

III. BELLSOUTH'S LOUISIANA UNE NON-LOOP RATES ARE VASTLY INFLATED ABOVE TELRIC LEVELS AND FORECLOSE PROFITABLE UNE-PENTRY.

10. BellSouth's Louisiana non-loop rates also are substantially inflated above TELRIC levels. BellSouth's Louisiana total non-loop charges are 81% higher than those it recently proposed in Georgia, even though, according to the Commission's Synthesis Cost Model, Louisiana's non-loop costs are only 19% higher than in Georgia. *See* Exhibits A(1-3).

announcing planned deployment of next-generation switching technology "at a fraction of the cost of traditional equipment").

⁴ A similar analysis shows that BellSouth's loop costs have also declined during the past few years. A simple analysis of BellSouth's Georgia net cable and wire ("C&W") investments and its access lines reveals that net C&W investments declined significantly on a per-line basis between 1992 and 2000. In fact, between 1996 and 2000, net C&W investment grew much more slowly than access lines, resulting in an overall decline in net investment per line of 59% from 1996 to 2002. When circuit equipment is reflected in conjunction with the C&W accounts, the decline is 50%. The overall loop decline should be between these two numbers. Because BellSouth's UNE loop rates do not reflect these decreased costs, those rates are not appropriate forward-looking cost-based rates. See Exhibit C-2 and C-3 (attached).

As I demonstrated in my initial declaration (¶¶ 11-27 & Exhibits 6-14), these overstated UNE rates foreclose profitable entry in Louisiana. Based on more recently obtained data, it is clear that BellSouth's rates continue to foreclose residential UNE-P entry in Louisiana.

- 11. The viability of a UNE-based offering that is, whether it makes sense for AT&T (or any other entrant) to commit its shareholders' capital to that enterprise turns on the same type of analysis as any other investment decision. Capital is scarce and must be devoted to its highest-valued uses. Thus, a carrier considering whether to enter the local services business in a state (or to continue to participate in that business) must determine whether revenues attributable to the service will exceed the costs of providing the service by an amount sufficient to generate a return that is commensurate with the expectations of investors concerning risks and returns and with competing uses for the capital.
- 12. There are essentially three steps to this analysis: (1) identifying and estimating each of the costs of providing the service, (2) identifying and estimating each of the revenue opportunities that will be generated by providing the service, and (3) deriving from these estimated "cash flows" some standard financial measure that allows the investment opportunity to be assessed (and compared to alternative investment opportunities).
- 13. Because telecommunications carriers are subject to numerous reporting requirements, obtaining the inputs necessary to conduct my analysis was straightforward. Carrier-specific data, including retail local service prices, UNE prices, and access prices are largely publicly reported and directly verifiable. I am confident, therefore, that the following analysis paints an accurate picture of the barrier that BellSouth's UNE prices in Louisiana pose to residential competition in that state.

- 14. The remainder of this section is organized as follows. First, I describe the costs associated with a residential UNE-Platform offering in Louisiana. Second, I describe the revenues that are available to carriers serving customers in Louisiana. Third, I translate these cash flows into margins by looking at the difference in a Louisiana entrant carrier's revenues and costs a type of financial measure commonly used by businesses to make investment decisions. This margin analysis shows that profitable UNE-Platform-based offerings cannot be undertaken by competitive carriers in Louisiana at the rates contained in BellSouth's application. Exhibits D-1 through D-9 to my declaration summarize the results of my cost, revenue and margin analyses and show how those values were computed.
- 15. **Costs.** There are two basic categories of costs associated with UNE-Platform-based services: (1) "connectivity" costs (*i.e.*, the costs associated with purchasing the necessary network elements from the incumbent), and (2) a carrier's own internal costs of running a local telephone service business (*e.g.*, developing, maintaining and operating computer support systems, as well as marketing, customer care, and administration). My analysis focuses primarily on the former category of costs, which are readily identifiable and verifiable.
- 16. The rates for UNE loops are \$11.77/month in Zone 1, \$22.39 in Zone 2, and \$48.26 in Zone 3. For UNE switch ports, new entrants pay \$1.36/month in all zones. These and the other relevant BellSouth Louisiana rates are listed in Exhibit D-2.
- Most other network local service rates are incurred based on usage (e.g., a per minute basis or a per record basis). Therefore, it is necessary to multiply the usage rates by the corresponding usage volumes to estimate the monthly per line cost that will be incurred by carriers for those elements. BellSouth's local usage volumes are available from its annual "dial equipment minutes" ("DEM") submissions to NECA and ARMIS (the same data that is used in

the Commission's Synthesis Cost Model). The most recent submission contains 2000 data. I used 1998 through 2000 NECA and ARMIS data to project BellSouth's 2002 DEM. *See* Exhibit D-3. Because the NECA and ARMIS data do not identify residential-specific toll-related minutes, I used residential toll volumes per line derived from the TNS Telecoms (formerly PNR) Bill Harvesting market research. These toll volumes and the calculations for local usage are detailed in Exhibit D-3 (attached).⁵

18. For each category of usage (*i.e.*, local, intraLATA toll, intrastate InterLATA, and interstate InterLATA) particular network architecture assumptions must be made. Specifically, local usage for each category must be apportioned between "Intraswitch" local volumes (where the calling and called parties are served by the same switch) and "Interswitch" local volumes (where the calling and called parties are served by different switches). My analysis assumes that 35 percent of local volumes in BellSouth's network are Intraswitch and that the remaining 65 percent of local volumes are Interswitch. *See* Exhibit D-4.⁶ The 65 percent of local volumes that are Interswitch must be further divided among those that are routed directly between two switches and those that are routed via a tandem switch. My analysis uses the same proportions for this traffic as the Commission's Synthesis Cost Model. Specifically, according to the

⁵ Because Louisiana has not adopted a bill-and-keep mechanism, the LEC to CLEC terminating local traffic is assumed to net out to zero, and only *originating* local traffic and its corresponding terminating traffic are used to compute costs. *See* Exhibit D-4. Specifically, UNE purchasers must pay switching, transport and related usage charges for access-related usage whether a call is originated or terminated by their customer, and the assumption is that the customer receives as much access traffic as he or she originates. For IntraLATA toll traffic, every originating minute is associated with a terminating minute to another customer (for simplicity assumed to be served by the same ILEC) in the ILEC's service area.

⁶ Although the Commission's Synthesis Model recognizes that about 50 percent of local calls would be Intraswitch calls in an efficiently designed network with properly sized switches, the relevant figure for a new entrant contemplating entry is what it will actually pay BellSouth. Because BellSouth's existing network is not efficiently designed and sometimes uses two

Commission's Synthesis Cost Model, approximately 2 percent of local Interswitch minutes and 20 percent of IntraLATA toll and InterLATA minutes are tandem-routed. *See* Exhibit D-4.

- 19. After the usage minutes have been apportioned, those minutes are multiplied by BellSouth's rates for each of those elements. These calculations are shown in Exhibit D-5, which shows that total monthly usage charge per line is \$5.62. See id.
- 20. In addition, as shown in Exhibit D-6, BellSouth's Louisiana DUF charges amount to \$1.02/month. This figure is a function of the number of ADUF and ODUF records multiplied by a set of per record rates. *See Ex Parte* Letter from Christopher T. Shenk, AT&T, to Magalie Roman Salas, FCC Secretary, CC Docket No. 01-277 (filed Nov. 2, 2001) (providing detailed explanation of DUF charge computations).
- DUF) incurred by a CLEC to serve a Louisiana customer is \$24.97. This is an average of the monthly connectivity costs for Zone 1 (\$19.77), Zone 2 (\$30.39), and Zone 3 (\$56.26) weighted by the relative number of estimated residence lines in each zone served by BellSouth. *See* Exhibit D-1. When the BellSouth Louisiana non-recurring charges (including OSS charges) of \$41.83 for new customers (assumed to be 10% of CLEC orders)⁷ and \$3.08 for migration (assumed to be 90% of CLEC orders) are added, the additional cost for the non-recurring charges is \$0.19. Therefore, the average total monthly platform cost in Louisiana is \$25.16. *See* Exhibit D-1.
- 22. **Revenues.** The BellSouth local service rates that UNE-Platform-based providers can obtain for their services are effectively capped by the retail rates charged by BellSouth. If

switches where one would be more efficient, the 35 percent figure must be used to determine expected connectivity costs that will be billed by BellSouth to the competing carrier.

new entrants attempt to charge higher rates than BellSouth, these new entrants would be unable to attract customers. BellSouth local service rates are readily available and verifiable from many sources, including CCMI. Mapping the local rates to wire centers and mapping the wire centers to UNE zones results in CCMI rates that range from \$11.36/month in Zone 3 to \$12.57/month in Zone 1.8

- 23. There are, of course, other incremental revenue opportunities available to new entrants to local services. A local service provider can expect to sell vertical features to many customers. The rates that new entrants are likely to obtain for these services can be determined from BellSouth's tariff rates for these services. Based upon average of 4Q00 to 3Q01 TNS Telecoms Bill Harvest market research data, a new entrant in Louisiana can expect, on average, to receive about \$9.60/month in vertical feature revenue. The federal Subscriber Line Charge brings in an additional \$5.00/month/line. Total expected customer revenues, therefore, average about \$26.89/line/month. *See* Exhibit D-1.
- 24. A UNE-Platform-based provider also earns access revenues (or attains savings) for originating and terminating long-distance calls. This revenue may either be explicit (when a CLEC charges an independent IXC, or implicit if the CLEC acts as its own IXC). To estimate these access revenues it is necessary to multiply expected toll minutes (derived from the TNS Telecoms Bill Harvest data) by the relevant access charges that AT&T can replace with UNEs.⁹

⁷ Because our experience is that a much larger percent of orders incur the more expensive new order charge, the 10% assumption is extremely conservative.

⁸ These values reflect the Flat Rate Monthly Individual Line Charge as reported by CCMI Rate Information, BellSouth Local Exchange Rates (effective October 3, 2000) and are listed in Exhibit D-8 (attached).

⁹ Dedicated transport access charges are not included because AT&T does not avoid these access charges through its acquisition of a UNE-P local customer.

My calculations show that a UNE-Platform entrant's estimated access charge revenues are \$0.90/line/month. *See* Exhibit D-7.

- 25. Summing all of these revenues, AT&T (or another entrant) could expect to receive \$27.80/line/month from residential UNE-based service in BellSouth (or between \$26.87 and \$28.08/line/month, depending upon the density zone).
- 26. **Margin.** There are many standard financial measures for assessing the profitability of investing (or continuing) in a line of business. The margin per line can be computed by comparing a carrier's expected costs with its expected revenues for each line. A "gross" UNE-P margin can be determined by subtracting expected direct connectivity costs from expected revenues. A "net" UNE-P margin can only be determined by subtracting all expected costs (*e.g.*, marketing, customer service, billing, order processing, and other operating activities) from expected revenues, which usually amount to over \$10 per line. *See* Bickley Decl., ¶¶ 1-8.
- 27. This margin analysis for Louisiana shows that residential gross margins in Louisiana are *negative* in two of the three UNE zones in Louisiana (negative \$3.38 in zone 2 and negative \$29.58 in zone 3). *See id.* Thus, residential UNE-based entry is not possible in Louisiana. Even though there is a positive gross margin in zone 1 (\$8.12), that amount is not sufficient to cover any potential entrant's internal costs of operating a local telephone business, which, as noted above, typically exceeds \$10. In any case, statewide gross margins for Louisiana are a paltry \$2.63. Thus statewide residential UNE-based entry would not be profitable in Louisiana. *See id.*
- 28. BellSouth has criticized my margin analysis because it does not account for IntraLATA toll revenues. *See* Ruscilli/Cox Decl. ¶ 20. But IntraLATA services can be provided by carriers and in many cases are already provided by carriers without entering Louisiana's

local telephone markets. Accordingly, revenues from those services are not properly attributable to local telephone entry and are not relevant to the determination of whether revenues associated with entry into the local telephone market would exceed the costs of that entry by a sufficient margin to make local entry economically viable.

- 29. In any event, this issue is moot. Adding IntraLATA toll revenues to the Louisiana margin analysis would not change the fact that statewide margins in Louisiana are negative. Accounting for potential IntraLATA toll revenues that may be available to new entrants in Louisiana would increase the margin by only *** ***. Adding that amount to my margin analysis still results in *negative* margins in UNE zones 2 and 3, and a state-wide average margin of only *** ***, which is still not remotely sufficient to cover the more than \$10.00 of internal costs.
- 30. BellSouth also asserts that my margin analysis fails to account for interstate access revenues. That is wrong. As shown in Exhibit D-7, my analysis accounts for the \$0.34 of interstate access revenues that new entrants in Louisiana can expect to obtain in the residential market.
- 31. Lastly, BellSouth points to a margin analysis conducted by another AT&T witness (Mr. Gillan) in another proceeding which shows greater margins than I find here. BellSouth thus accuses me of "manipulating" data. *See Ruscilli/Cox* ¶ 20-21. That accusation is spurious. BellSouth's comparison of Mr. Gillan's and my margin analyses is inapposite.
- 32. The analysis conducted by Mr. Gillan was aimed at determining the margins that are available to *incumbent LECs*. Accordingly, Mr. Gillan included in his analysis all revenues that are available to LECs. By contrast, my analysis aims at identifying incremental margins that are available to competitive LECs that choose to enter Louisiana. Therefore, my analysis

focuses only on those revenues that become available to competitive LECs upon entry into Louisiana.

- 33. Another important reason that the results of my margin analysis differ from those of Mr. Gillan's analysis is that Mr. Gillan's margin analysis is based on 1993/1994 data, whereas my analysis is based on current data. Because access rates have fallen by more than 500% since 1994, ¹⁰ it is not surprising that the access revenues reflected in Mr. Gillan's margin analysis are higher than those reflected in my margin analysis.
- 34. For all of these reasons, BellSouth's criticisms of my margin analysis are misplaced and should be rejected.

IV. RESALE AND UNE-L ENTRY IN LOUISIANA ARE NOT FEASIBLE ENTRY ALTERNATIVES FOR NEW ENTRANTS.

- 35. BellSouth suggests that the fact that its UNE-P rates preclude residential entry is irrelevant because potential competitors have other modes of entry available to them. *See* BellSouth Supp. App. at 40. According to BellSouth, even without the UNE-platform, it would still be economically feasible for entrants to provide local residential services in Louisiana through resale or a UNE-loop facilities-based approach. BellSouth is again wrong.
- 36. Resale. In Louisiana, entrants can purchase residential lines from BellSouth at a 21% discount from the retail rates for those lines. The average retail revenue for a line in Louisiana is about \$21.89. That means that a local entrant in Louisiana can purchase those lines for resale for \$17.36. The gross margin that is available to local residential resale entrants in Louisiana is the difference between the retail rate for that line and the discounted rate for that

¹⁰ According to Table 1.2 of the FCC trends report, per CM access rates in 1994 averaged 6.89 cents, whereas the most recent CM access rate is 1.71 cents per CM.

line, *i.e.*, \$21.89 - \$17.36 = \$4.54. That margin does not even come close to covering the entrant's \$10.00+ internal costs of providing those services. Thus, resale is not an economically feasible alternative to UNE-P for provision of local exchange services to residential customers.

- 37. *UNE-Loop*. The only facilities-based alternative to UNE-P in Louisiana would be a UNE-loop strategy in which entrants attempt to provide residential service by leasing unbundled loops from BellSouth and combining them with the entrants' own switches to provide local residential service. The costs and administrative difficulties of such an entry strategy, however, make UNE-loop entry economically infeasible for new entrants pursuing typical residential customers. In its *UNE Remand Order* (¶¶ 254-258), 12 the Commission itself recognized that entrants could not rationally invest in switches until they have used UNE-P to build up a customer base. As discussed above, Louisiana entrants cannot build up such a customer base because BellSouth's Louisiana UNE rates preclude profitable UNE-platform entry.
- 38. More fundamentally, entrants could not rationally enter Louisiana with a UNE-loop based strategy because the costs of provisioning UNE-loop and connecting them to entrants' switches make mass-market residential UNE-loop entry economically infeasible. BellSouth has not deployed a technology that allows customers to change electronically from one local exchange carrier (*e.g.*, BellSouth) to another local exchange carrier (*e.g.*, a new entrant) at no or minimal cost. Instead, the change requires entrants to purchase a "hot cut." Even if,

¹¹ Unlike UNE-P entrants, resellers do not receive SLC revenues and also cannot generate access revenues (or savings) form exchange access service.

¹² Implementation of the Local Competition Provisions of the Telecommunications Act of 1996, Third Report and Order, 15 FCC Rcd. 3696, ¶ 260 (1999); see also Implementation of the Local Competition Provisions in the Telecommunications Act of 1996, Comments of AT&T Corp., Affidavit of C. Michael Pfau, ¶¶ 11-23 CC Docket No. 96-98 (filed May 1999).

¹³ See id.

contrary to prior experience, hot cuts could be performed in mass-market volumes and were performed in a timely manner so they did not cause outages for substantial numbers of customers, the hot cut charges for each new customer, combined with additional collocation and transport costs that the ILEC does not incur, make a UNE-loop strategy, at best, only economic for business customers, not for residential customers. 14 That is especially true because the substantial turn-over (or "churn") rate associated with the provisioning of competitive local residential services will likely make it impossible for carriers to recover their up-front costs of providing UNE-loop services (including hot cuts) given the expected retention period of residential customers. Thus, AT&T has not used UNE-loop to provide basic local residential service to customers anywhere in the country. Beyond that, because BellSouth and other BOCs have been unable effectively to provision hot-cuts, even in relatively small quantities, in a timely manner and without causing outages for substantial numbers of customers, AT&T generally no longer initially serves even new small business customers with UNE-L. Instead, it initially serves most new small business customers through UNE-P - and is seeking to develop procedures in which incumbents will move large groups of AT&T customers from the incumbent's switch to an AT&T switch on a project basis. 15

V. CONCLUSION

39. For the foregoing reasons, it is clear that BellSouth's Georgia and Louisiana rates are significantly overstated and create a price squeeze that precludes competitive entry.

¹⁴ See id.

¹⁵ See, e.g., Performance Measurements and Standards for Unbundled Network Elements and Interconnection, AT&T Comments, CC Docket No. 01-318, Sczepanski Decl. (filed January 22, 2002).

VERIFICATION PAGE

I, Michael Lieberman, declare under penalty of perjury that the foregoing is true and correct.

Mulial Lule
Michael Lieberman

Executed on March 4, 2002.

Cost Adjusted Total Non-Loop Charges

FCC Volumes

Company	State	Total Non- Loop Charge, per line per month	BS GA Rate Relative to GA 2/19 Rates	BS LA Rate Relative to GA 2/19 Rates
BS	GA	\$6.83		
BS	LA	\$6.83		
BS	GA Generic (no feature additive)	\$3.77	81%	81%
BS	GA Generic	\$6.05	13%	13%

Company	State	"UNE'		BS GA Cost	BS LA Cost
		MOD	Von-	Relative to GA	Relative to GA
		Loop	Cost	2/19 Rates	2/19 Rates
BS	GA	\$	3.65		
BS	LA	\$	4.36		
BS	GA Generic (no feature additive)	 \$	3.65	0%	19%
BS	GA Generic	\$	3.65	0%	19%

Company	State	BS GA Cost Adjusted Relative Non- Loop Rates_ vs GA 2/19 Rates	BS LA Cost Adjusted Relative Non- Loop Rates_ vs GA 2/19 Rates
VZ	GA		
VZ	LA		
BS BS	GA Generic (no feature additive) GA Generic	81% 13%	52% -5%

GA and LA_ Cost per line_UNE Adjusted from FCC SynMod

			l	
		Per Line Cost GA L	e C	LA LA
End office switching + Signaling				
End office switching	↔	3.09	↔	3.20
Signaling network elements	↔	0.11	↔	0.18
Total	↔	3.21	↔	3.38
Transport Network Elements				
Common Transport	€	0.37	↔	0.89
Tandem switch	·Ω	0.07	↔	0.09
Total	↔	0.44	↔	0.98
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UNE Platform_Non Loop	\$	3.65	↔	4.36

Non-Loop Per-Line Charge Comparison Non-Loop Comparison, using FCC volumes as standard

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Total Non-loop Usage Charge, per line per month		Total Switching Charge (excl DUF), per line per month	Line Side Port rate, per line per month	Total Switching Usage Cost, per line per month	Common Trunk Port+Signaling	Terminating	Originating	Common Trunk Port per MOU	Signaling per Message	Originating Terminating	Local Switching Rate, per MOU	Element
\$5.04	i i	\$6.16	\$1.79	\$4.37	\$0.34	\$1.77	\$2.26	\$0.000156	Included in Switching rate	0.001633		GA
\$6.05	\$3.50	\$5.78	\$3,48	\$2.30	\$0.34	\$0.86	\$1.10	\$0.000158	Included in Switching rate	0.000791		GA - Generic
\$5,4/	i ì	\$6.36	\$1.36	\$5.00	\$0.39	\$2.03	\$2.59	\$0.000180	Included in Switching rate	0.001868		F
	\$5.04 \$2.5/	\$5.04 \$2.57 \$5.04 \$2.57	month \$6.16 \$5.78 \$5.04 \$2.57 \$5.04 \$2.57	### ### ##############################	\$4.37 \$2.30 \$1.79 \$3.48 yer month \$6.16 \$5.78 yer month \$5.04 \$2.57 yer month \$5.04 \$2.57	\$0.34 \$0.34	Terminating \$1.77 \$0.86 (Port+Signaling \$0.34 \$0.34 \$0.34 \$0.34 \$0.34 \$0.34 \$0.34 \$0.34 \$0.34 \$0.34 \$0.34 \$0.34 \$0.34 \$0.34 \$0.34 \$0.35 \$	Originating \$2.26 \$1.10 Terminating \$1.77 \$0.86 (Port+Signaling \$0.34 \$0.34 \$4.37 \$2.30 \$1.79 \$3.48 per month \$1.79 \$3.48 \$5.78 \$5.78 \$5.04 \$2.57 at month \$5.04 \$2.57	\$0.000156 \$0.000158	Included in Included in Signaling per Message Switching rate Switching rate Switching rate	Terminating \$9.001533 \$9.000791	Local Switching Rate, per MOU Originating \$0.001633 \$0.000791 Terminating 0.001633 \$0.000791 Signaling per Message Included in Switching rate Included in Switching rate Common Trunk Port per MOU \$0.000156 \$0.000158 Common Trunk Port Signaling \$2.26 \$1.10 Total Switching Usage Cost, per line per month \$0.34 \$0.34 Line Side Port rate, per line per month \$1.79 \$3.48 Total Non-Loop Usage Charge, per line per month \$5.04 \$5.78 Total Non-Loop Usage Charge, per line per month \$5.04 \$2.57 Total Non-Loop Usage Charge, per line per month \$5.04 \$2.57

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- Notes/Sources:

 1 Statewide average originating Local switching minutes of use rate exclusive of EO trunk port rate.

 2 Statewide average terminating Local switching minutes of use rate exclusive of EO trunk port rate.
- Signaling rate per message -- not a separate UNE-P rate element for these companies.
- End Office Common Trunk Port rate per MOU -- a separate rate element for each of these companies. Per table above, uses usage assumptions drawn from FCC PA 271 Order Line port rate appropriate for UNE-P.

Comparison of DUF Cost Calculated at Georgia Volumes

112%	\$ 1.40	GA Generic \$	BS
116%	\$ 1.37	۲ *	BS
%0	\$ 2.96	GA	BS
states			
to other 271	line per month to other 271		<
GA Relative	DUF Cost , per GA Relative	State	Compan

^{*} The LA DUF charge at LA volumes is \$1.02

Time Trend Analysis of Net Switch Investment per DEM

49%	-51-76	-9.5%	, 1	9 0.0000	c	0,000	0,0070	0.000	0.0080	6	0.040		ואפר מאונטו מוץ פמן טבואו
	2400	0	n 19	9 0000	5	9 0 0000	9 0 0079	7,000	8 0200 8 0200 8 0200 8 0200 8 0200 8 0200 8 0200 8	6 0 0103	9 00/60	9 0 0130	Not positob los por DEM
24%	20%	2.1%	18%	4,255,392 44% 5,446,942	4,068,147 44% 5,077,781	3,926,651 45% 4,876,741	3,670,390 44% 4,694,408	3,434,796 43% 4,539,962	3,038,526 40% 4,474,440	2,803,313 38% 4,622,238	2,629,319 36% 4,621,139	2,399,855 34% 4,597,636	CO Switch Depreciation Reserve CO Switch Reserve Ratio Total CO Switch EOP Net Plant (\$M))
				9,702,334	9,145,928	ώ		7,974,758	7,512,966	7,425,551	7,250,458	6,997,491	Total CO Switch EOP Gross Plant (\$M)
101%	74%	12.6%	159%	914,302	822,787		603,930	524,847	481,689	450,625	98,596	353,596	Total DEM (Millions)
growth 1996 to 2002	Growth	2000 vs 1992 CAGR	Overall Growth	2000	1999	1998	1997	1996	1995	1994	1993	1992	BS - Total
Estimate	96												
-56%	-37%	-9.9%	-57%	00327 \$ 0.00305	o.	\$ 0.00482 \$ 0.00424 \$ 0.00375 \$	\$ 0.00424	\$ 0.00482	\$ 0.00621 \$ 0.00549	\$ 0.00621	\$ 0.02888	\$ 0.00703	Net Switch Inv per DEM
17%	15%	1.1%	9%	538,510	516,243	500,262	485,869	469,616	471,169	490,079	493,819	492,016	Est Total CO Switch EOP Net Plant (\$M)
:				959,217	929,840	903,062	865,753	824,913	791,133	787,304	774,790	748,836	Total CO Switch EOP Gross Plant (\$M)
77%	59%	8.4%	91%	6,097		69,097	59,510	54,013	50,975	47,837	10,694	45,164	Total DEM (Millions)
to 2002		CAGR	-	2000	1999	1998	1997	1996	1995	1994	1993	1992	BS-LA
Estimate growth 1996	2000 vs 1996 Overall	2000 vs 1992	2000 vs 1992										
40%	-32%	-8.1%	-49%	0.00589 \$ 0.00572		\$ 0.00664	\$ 0.00745	\$ 0.00845	0.01125 \$ 0.04626 \$ 0.01031 \$ 0.00912 \$ 0.00845 \$ 0.00745 \$ 0.00664 \$	\$ 0.01031	\$ 0.04626	\$ 0.01125	Net Switch Inv per DEM
26%	23%	3.2%	28%	1,009,629	930,395	886,130	854,038	823,392	782,493	813,210	791,007	786,955	Est Total CO Switch EOP Net Plant (\$M)
				1.798.395	1.675.796	1.599.624	1.521.779	1.446.345	1.313.873	1.306.409	1,241,072	1,197,726	Total CO Switch EOP Gross Plant (\$M)
93%	81%	12.3%	152%	6,508	57,849	133,416	114,596	97,424	85,817		17,101	69,981	Total DEM (Millions)
to 2002		CAGR	Overall Growth	2000	1999	1998	1997	1996	1995	1994	1993	1992	BS - GA
growth 1996	Overall	2000 vs 1992	2000 vs 1992										
Estimate	2000 vs 1996						•				,		
						[~ ~ ~ ~		C::::	(1 y 0 : 0		

Source: GA and LA data from ARMIS 43-03 and 43-08, BS data is from ARMIS 43-02 and 43-08

Time Trend Analysis of Cable and Wire Net Investment per Line

Net C&W Plant per Total Line \$ 5		BS - Total Total Access Lines 19,26 Cable & Wire Facilities (eoy) 17,78	Net C&W Plant per tot line \$ 5	Total Access Lines 1,94 Cable & Wire Facilities (eoy) 2,01 Estimated Net C&W Plant 1,16	•	Cable & Wife Facilities (eoy) 2.94 Estimated Net C&W Plant 1,68 Net C&W Plant per tot line \$ 5.5	
532.03 \$	7,564,751 8 10,219,739 10 43%		596.54 \$			2,940,760 3 1,689,888 1 525.82 \$	
511.65 \$	0.	1993 20,127,546 18,560,260	570.31 \$			Ð	1993 3,389,810
483.08 \$	8,988,839 10,266,309 47%	1994 21,251,808 19,255,148	535.62 \$	2,115,896 2,125,614 1,133,318		3,238,754 1,726,813 476.72 \$	1994 3,622,315
452.84	9,824,936 10,232,076 49%	1995 22,595,392 20,057,012	507.02	2,196,258 2,182,765 1,113,537	1995	3,411,702 1,740,478 444.28	1995 3,917,484
\$ 413.41 \$	10,710,392 10,125,648 51%	1996 24,493,048 20,836,040	\$ 470.54 \$	2,305,079 2,231,881 1,084,623	1996	3,5/9,643 1,739,592 \$ 400.48	1996 4,343,728
\$ 385.78 \$	11,674,969 9,945,157 54%	1997 25,779,614 21,620,126	\$ 435.33 \$	2,415,721 2,286,178 1,051,631	1997		1997 4,611,974
343.15	12,714,952 9,763,512 57%	1998 28,452,496 22,478,464	\$ 390.70 \$	2,602,249 2,340,710 1,016,686	1998	3,899,962 1,693,947 8 315 14	1998 5,375,278
\$ 304.30	13,743,375 9,568,285 59%	1999 31,443,504 23,311,660	352.66	2,785,700 2,393,497 982,412	1999		1999 6,301,724
\$ 259.88	14,811,681 9,659,309 61%	2000 37,168,380 24,470,990	\$ 301.75	3,216,913 2,459,223 970,717		4,408,873 1,740,292 \$ 229,99	2000 7,566,846
-51%	-5%	93%	49%	-16%	,	-56%	2000 vs 1992 Overall Growth 135%
-7.7%			-7.3%		6	-b 20 30 30 30	2000 vs 1992 CAGR
-37%			-36%			A3%	2000 vs 1996 Overall Growth
-52%			-50%		č	-50%	Estimate growth 1996 to 2002

Source: GA and LA data from ARMIS 43-03 and 43-08, BS data is from ARMIS 43-02 and 43-08

Time Trend Analysis of Cable and Wire plus Circuit Equipment Net Investment per Line

Net C&W + Circuit Equ	C&W Depreciation Reserve	Net Circuit Equipment Investment	Acc. Dep: Circuit Equipment	Circuit Equipment	C&W Depreciation Reserve	Net C&WF Plant	Acumulated Depreciation	Cable & Wire Facilities (eoy)	Total Access Lines	BS - Total	Net C&W +Circuit Inv per tot line	Net Circuit Equipment Investment	Circuit Equipment	Estimated Net Cavy Plant		Cable & Wire Facilities (env)	Total Access Lines	BS-LA	Net C&W +Circuit Inv per tot line	Net Circuit Equipment Investment	Circuit Equipment	Estimated Net C&W Plant	Cable & Wire Facilities (eoy)	Total Access Lines	BS - GA	
Net C&W + Circuit Equipment Inv per Total Line	serve	Investment	ment		erve		on	(eoy)			er tot line	Investment		ant	(50)	(eov)			er tot line	Investment		ant	(eoy)			
\$ 731.72 \$	42%	3,835,941	2,728,120	6,564,061	43%	10,219,739	7,564,751	17,784,490	19,209,116	1992	\$ 790.29 \$		645,063	1,160,635	1,000,000	2 019 748	1 945 617	1992	\$ 731.10 \$	659,720	1,128,912	1,689,888	2,940,760	3,213,802	1992	
705.19 \$	45%	3,895,593	3,175,554	7,071,147	45%	10,298,199	8,262,061	18,560,260	20,127,546	1993	754.64 \$		0/0,2/9	676 270	A 170 74 4	2 077 516	2 021 210	1993	707.90 \$	682,151	1,238,217	1,717,484	3,095,390	3,389,810	1993	
668.46 \$	49%	3,939,774	3,729,343	7,669,117	47%	10,266,309	8,988,839	19,255,148	21,251,808	1994	709.09 \$	367,040	/14,4/6	7,133,318	4, -0,0,0	2 1 25 614	2 115 896	1994	671.00 \$	703,760	1,369,931	1,726,813	3,238,754	3,622,315	1994	
630.47 \$	52%	4,013,575	4,287,354	8,300,929	49%	10,232,076	9,824,936	20,057,012	22,595,392	1995	677.09 \$	373,533	112,545	7,113,537	4,104,707	2 182 765	2 196 258	1995	632.95 \$	739,108	1,528,632	1,740,478	3,411,702	3,917,484	1995	
582.79 \$	55%	4,148,715	5,028,601	9,177,316	51%	10,125,648	10,710,392	20,836,040	24,493,048	1996	632.97 \$	374,431	828,274	000 074	4,201,001	2 221 881	2 305 079	1996	581.57 \$	786,584	1,739,992	1,739,592	3,579,643	4,343,728	1996	
551.02 \$	58%	4,260,003	5,804,518	10,064,521	54%	9,945,157	11,674,969	21,620,126	25,779,614	1997	590.52 \$	374,896	885,715	1,051,631	4,200,170	2 286 178	2 415 721	1997	549.65 \$	822,255	1,942,628	1,712,713	3,723,327	4,611,974	1997	
495.63 \$	61%	4,338,290	6,654,975	10,993,265	57%	9,763,512	12,714,952			1998	533.29 \$	371,063	940,2//	1,016,686	1,040,710	2 340 710	2 602 249	1998	474.07 \$	854,328	2,164,875	1,693,947	3,899,962	5,375,278	1998	
448.75 \$	62%	4,541,996	7,386,398	11,928,394	59%	9,568,285	13,743,375	23,311,660	31,443,504	1999	489.98 \$	382,512	1,004,570	982,412	1,000,10	2 303 407	2 785 700	1999	412.17 \$	917,725	2,410,171	1,679,652	4,092,214	6,301,724	1999	
397.71	62%	5,122,995	8,382,231	13,505,226	61%	9,659,309	14,811,681	24,470,990	37,168,380	2000	432.71		1,110,592	9/0,/1/	4,400,440	2 450 223	3 216 913	2000	371.05	1,067,352	2,813,750	1,740,292	4,408,873	7,566,846	2000	N
46%						-5%			93%		45%			-16%			65%		49%			3%		135%		2000 vs 1992 Overall 2
-6.5%											.ნ. ა.ნ. %								-7.3%						CAGR	2000 vs 1992
-32%											-32%								-36%							2000 vs 1996 Overall
44%											44%								-50%						to 2002	Estimate growth 1996

Source: GA and LA data from ARMIS 43-03 and 43-08, BS data is from ARMIS 43-02 and 43-08

Connectivity Margin for Bell South Louisiana

MARGINS RES © SWBT \$#Line % 0.67 Zone 1 \$8.12 29% \$8.79 Zone 2 (\$3.28) -12% (\$2.61) Zone 3 (\$29.58) -110% (\$28.91) Residence Statewide \$2.63 9% \$3.30	Total Revenue Zone 1 \$28.08 Zone 2 \$27.30 Zone 3 \$26.87 Total Revenue -Statewide \$27.80	Other Revenue Sources Features \$9.60 Sub. Line Chg. \$5.00 Access	##EVENUES Basic Local Svc Zone 1 \$12.57 Zone 2 \$11.79 Zone 3 \$11.36 Basic Local Svc -Statewide \$12.29	COSTS Statewide Zone 1 Zone 2 Zone weights 67% 26% Loop Port \$16.98 \$11.77 \$22.39 Port \$1.36 \$1.36 \$1.36 Usage Usage DUF \$5.62 \$5.62 \$5.62 Platform - Recurring Cost Amortization of NRC Fee \$24.97 \$19.77 \$30.39 Amortization of NRC Fee \$0.19 \$0.19 \$0.19 Total Platform (w/NRC) \$25.16 \$19.96 \$30.58
				one 2 26% 22.39 21.36 11.36 15.62 11.02 30.39 30.58
				Zone 3 7% \$48.26 \$1.36 \$5.62 \$1.02 \$56.26 \$0.19 \$56.45

BellSouth Louisiana UNE-P: Current UNE Rates

09/21/01 Order Dkt# U24714

z	3	广	×	د	_	ェ	ດ	'n	iш	Ö	ဂ	œ	₽	
ODUF - Data Transmission(Connect:Direct). Per message	ODUF - Message Processing, per message	ODUF - Recording, per Message	ADUF - Data Transmission(Connect:Direct), per message	ADUF - Message Processing, per message	Tandem switching trunk port	Tandem switching	Common Transport - Fac. Term, Per MOL	Common Transport - Per Mile, Per MOU	EO Switch Port	EO Switching	Analog Line Side Port	Loop	Residence Line Distribution	By Density Zone
ct:Direct). Per r	nessage		ot:Direct), per n	nessage			er MOU	MOU			\$1.36	\$11.77	67%	Urban
nessage			าessage								\$1.36	\$22.39	26%	Suburban
											\$1.36	\$48.26	7%	Rural
€9 -	G	εs	G	G	G	G	S	εs	s	εs				44
0.00010122 *	0.00244600 *	0.00001170 *	0.00012147 *	0.00182500 *	0.000222	0.000107	0.000375	0.000003	0.000180	0.001868	\$1.36	\$16.98	100%	Statewide

^{*} DUF rates revised as of BST SGAT Revision 12/06/01

Residential Toll Conversation MOU Per line Per Month

Average Residential Toll Minutes 4Q00 - 3Q01

62.0	Inter-State	
18.7	Intra-State	Inter-Lata
1	Inter-State	
21.6	Intra-State	Intra-Lata
Louisiana		Verizon

Source: TNS ReQuest Market Monitor and Bill Harvesting Study

ARMIS-Based Local DEM Per line Per Month

1,449		1,168	1-Way DEM per
2,898	11.4%	2,336	2-Way DEM per
Local DEM	2000 vs 1998 Local DEM	Local DEM *	
Per Month	line CAGR:	Per Month	
2002 Per Line	Total DEM per 2002 Per Line	2000 Per Line	
Estimated			

^{*} As local DEM was not yet reported for 2000, the 1999 split of intrastate between toll and local was used.

Bell South_Louisiana			UNE Unit Co	UNE Unit Cost Development	ment					
			Local		Intrala	Intralata toll	Intrastate InterLATA	nterLATA	Interstate	Interstate InterLATA
			interswitch local	ch local	Up to I)	Up to IXC POP				
		Intraswitch			Intralata Toll	Intralata Toll Intralata Toll	Interlata Toll Interlata Toll Interlata Toll Interlata Toll	Interlata Toll	Interlata Toll	Interlata Toll
	Rates	local	Direct	Tandem	Direct	Tandem	Direct	Tandem	Direct	Tandem
EO Switching	\$ 0.0018680	1	1	1	1	1	1	1	1	
EO Switch Port	\$ 0.0001800			_		_		_		`
Common Xport - Blended	\$ 0.0004068		_	_		_		_		
Tandem switching	\$ 0.0001067			_		_				
Term. EO Switching	\$ 0.0018680		_		_	_				
Term. EO Switch Port	\$ 0.0001800				_	_				
Tandem switching trunk port	\$ 0.0002220			N		2		_		
		\$ 0.0018680	\$ 0.0045028	\$ 0.0050535	\$0.0045028 \$ 0.0050535 \$ 0.0045028 \$ 0.0050535	\$ 0.0050535	\$ 0.0018680 \$ 0.0027835 \$ 0.0018680 \$ 0.0027835	\$ 0.0027835	\$0.0018680	\$ 0.0027835
MOU		507	923	19	17	4	30	7	99	25
Cost per Line		\$ 0.947	0.947 \$ 4.156 \$	\$ 0.095 \$	\$ 0.078 \$	0	.022 \$ 0.056 \$ 0.021 \$ 0.185 \$ 0.069	\$ 0.021	\$ 0.185	\$ 0.069

MOU Assumptions	Outbound	Inbound	total	intraoffice	tandem
Local	1,449		1,449	35%	2%
IntraLATA Toll	22	22	43	0%	20%
Intrastate InterLATA	19	19	37	0%	20%
Interstate InterLATA	62	62	124	0%	20%
Total	1,551	102	1,654		

UNE Usage Cost Per Line by Service

\$ 5.62				Total Usage Per Line
\$ 0.25	0.002051	€9		
	0.002784	↔	20%	interlata toll tandem
	0.001868	↔	80%	interlata toll direct
				Interstate InterLATA
\$ 0.08	0.002051	ઝ		
	0.002784	G	20%	interlata toll tandem
	0.001868	G	80%	interlata toll direct
				Intrastate InterLATA
\$ 0.09	0.002051	↔		
	0.002784	↔	20%	intralata toll tandem
	0.001868	↔	80%	intralata toll direct
				Up to IXC POP
				IntraLATA Toll
\$ 5.20	0.003588	↔		
	0.005054	↔	1%	Interswitch tandem local
	0.004503	₩	64%	Interswitch direct local
	0.001868	↔	35%	Intraswitch local
				Local
Cost per Line	UNE Cost	ر	% MOU	
				Bell South_Louisiana

Bell South_Louisiana DUF Charges

\$1.02			DUF Total
\$0.95	373 1492	\$0.000101 \$0.003	ODUF - Data Transmission(Connect:Direct). Per message
	ļ	\$0.000012 \$0.002446	ODUF - Recording, per Message ODUF - Message Processing, per message
\$0.06	32 162	\$0.001825 \$0.000121 \$0.000195	ADUF - Message Processing, per message ADUF - Data Transmission(Connect:Direct), per message
rds	MOU/Records		
		٦	Daily Usage Feed (DUF)

DUF rates revised as of BST SGAT Revision 12/06/01

Bell South_Louisiana

ACCESS REVENUE CALCULATION	ULATION		
			Access
			Revenue per
	MOUs	RATE	Line
Interstate Access	124	\$ 0.00276	\$0.34
Intrastate Access	<u>37</u>	\$ 0.00697	\$0.26
Total InterLATA	162		\$0.60
IntraLATA Toll	43	\$ 0.00697	\$0.30
Total	:		\$0.90

0.006968	0.006968	0.002756	0.002756
TERMINATING	ORIGINATING	TERMINATING	ORIGINATING
INTRASTATE	INTE	INTERSTATE	INTE
	ISPORT	WITHOUT DEDICATED TRANSPORT	

BellSouth LA_Basic Local Rates

Local Rate			# of Wire		# of
Zones	‡	FR Rate	Centers	# of Lines	Exchanges
_	Ð	10.97	84	180,432	79
N	↔	11.18	12	42,986	1
ယ	↔	11.39	œ	52,553	œ
4	↔	11.60	13	51,111	12
5	↔	11.81	12	51,318	7
တ	↔	12.02	S	39,168	ហ
7	↔	12.23	7	68,649	7
8	↔	12.43	œ	75,954	œ
9	↔	12.64	79	1,120,321	38
Totals/Avg. \$	€ S	12.29	228	1,682,491	175

Local Rate Effective Date

10/3/2000

Average Monthly Feature Revenue Per Bill \$ 9.60

Source: TNS Bill Harvesting Study, 4Q00 - 3Q01

BellSouth LA_Basic Local and UNE Loop Rates by UNE Zone

100%	228	\$ 12.29	16.98	1,682,491 \$ 16.98	Totals/Avg.
7%	77	\$ 11.36	48.26	112,836 \$	ယ
26%	94	\$ 11.79	22.39	437,033 \$	2
67%	57	\$ 12.57	11.77	1,132,622 \$	
Lines	Centers	Rate	Price	Res Lines	UNE Rate Zone
Total	# of Wire	Average Local # of Wire	Loop /		
% of			UNE		